GGCGCGGGTGTTGCAGCTTCCCGGTGCTGAAAACCGGAGGGCTCGTCATCCACCACTACCATGTAAGGGCCATGAGA M E E D L F Q L R Q L P V 13 AGGGCTCATCCTCGCCCAGCGCGGAC ATG GAG GAG GAC TTA TTC CAG CTA AGG CAG CTG CCG GTT V K F R R T G E S A R S E D D T A S G E 33 GTG AAA TTC CGT CGC ACA GGC GAG AGT GCA AGG TCA GAG GAC GAC ACG GCT TCA GGA GAG H E V Q I E G V H V G L E A V E L D D G 53 CAT GAA GTC CAG ATT GAA GGG GTC CAC GTG GGC CTA GAG GCT GTG GAG CTG GAT GAT GGG 159 A A V P K E F A N P T D D T F M V E D A 73 GCA GCT GTG CCC AAG GAG TTT GCC AAT CCC ACC GAT GAT ACT TTC ATG GTG GAA GAT GCA V E A I G F G K F Q W K L S V L T G L A 93 GTG GAA GCC ATT GGC TTT GGA AAA TTT CAG TGG AAG CTG TCT GTT CTC ACT GGC TTG GCT 27**9** W M A D A M E M M I L S I L A P Q L H C 113 TOG ATG GCT GAT GCC ATG GAG ATG ATG ATC CTC AGC ATC CTG GCA CCA CAG CTG CAT TGC E W R L P S W Q V A L L T S V V F V G M 133 GAG TGG AGG CTC CCA AGC TGG CAG GTG GCA TTG CTG ACC TCG GTG GTC TTT GTA GGC ATG 3**99** 153 M S S S T L W G N I S D Q Y G R K T G L ATG TOO AGO TOO AGG CTC TOG GGA AAT ATC TOA GAC CAG TAC GGC AGG AAA ACA GGG CTG 459 173 K I S V L W T L Y Y G I L S A F A AAG ATC AGC GTG CTG TGG ACT CTG TAC TAT GGC ATC CTT AGT GCA TTT GCG CCC GTG TAT 519 S W I L V L R G L V G F G I G G V P Q S 193 AGC TOG ATC CTG GTG CTC CGG GGC CTG GTG GGC TTC GGG ATC GGA GGA GTT CCC CAG TCG 579 V T L Y A E F L P M K A R A K C I L L I 213 GTG ACG CTG TAT GCC GAG TTC CTT CCC ATG AAA GCC AGA GCT AAA TGT ATT TTG CTG ATT E V F W A I G T V F E V V L A V F V M P 233 GAG GTA TTC TGG GCC ATC GGG ACA GTG TTC GAG GTC GTC CTG GCT GTG TTC GTG ATG CCC 6**99** 253 S L G W R W L L I L S A V P L L L F A V AGC CTG GGC TGG CGT TGG CTG CTC ATC CTC TCA GCT GTC CCG CTC CTC CTC TTT GCC GTG 273 L C F W L P E S A R Y D V L S G N Q E K CTG TGT TTC TGG CTG CCT GAA AGT GCA AGG TAT GAT GTG CTG TCA GGG AAC CAG GAA AAG 819 293 AIATLKRIATENGAPMPLGK GCA ATC GCC ACC TTA AAG AGG ATA GCA ACT GAA AAC GGA GCT CCC ATG CCG CTG GGG AAA

Figure 1

L I I S R Q E D R G K M R D L F T P H F CTC ATC ATC TCC AGA CAG GAA GAC CGA GGC AAA ATG AGG GAC CTT TTC ACA CCC CAT TTT

R W T T L L L W F I W F S N A F S Y Y G AGA TGG ACA ACT TTG CTG CTG TGG TTT ATA TGG TTT TCC AAT GCA TTC TCT TAC TAC GGG

333

999

L V L I T E L F 2 A G D V C G I S S P 253 TTA GTT CTA CTC ACC ACA GAA CTC TTC CAG GCA GGA GAT GTC TGC GGC ATC TCC AGT CGG 1059 373 AAG AAG GCT GTA GAG GCA AAA TGC AGC CTG GCC TGC GAG TAC CTG AGT GAG GAG GAT TAC 1119 M D L L W T T L S E F P G V L V T L W I 393 ATG GAC TTG CTG TGG ACC ACC CTC TCT GAG TTT CCA GGT GTC CTT GTG ACT CTG TGG ATT 1179 I D R L G R K K T M A L C F 7 I F S F C ATT GAC CGC CTG GGG CGC AAG AAG ACC ATG GCC CTG TGC TTT GTC ATC TTC TCC TTC TGC 1239 S L L L F I C Y G R N Y L T L L F I A AGC CTC CTG CTG TTT ATC TGT GTT GGA AGA AAT GTG CTC ACT CTG TTA CTC TTC ATT GCA 1299 RAFIS G G F Q A A Y Y Y T P E V Y P AGA GCG TIT ATT TOT GGA GGC TIT CAA GCG GCA TAT GTT TAC ACA CCT GAG GTC TAC CCC 1359 TATRALGLGTCSGMAR7GAL 473 ACG GCA ACG CGG GCC CTC GGC CTG GGC ACC TGC AGC GGC ATG GCA AGA GTG GGT GCT CTC 1419 I T P F I A Q V M L E S S V Y L T L A V 493 ATC ACT CCG TTC ATC GCC CAG GTG ATG CTG GAA TCC TCT GTG TAC CTG ACT CTG GCA GTT 1479 Y S G C C L L A A L A S C F L P I E T K 513 G G G L Q E S S H R E W G Q E M V G R G GGC GGA GGA CTG CAG GAG TCC AGC CAC CGG GAG TGG GGC CAG GAG ATG GTC GGC CGA GGA 1599 549 M H G A G V T R S N S G S Q E * ATG CAC GGT GCA GGT GTT ACC AGG TCG AAC TCT GGC TCT CAG GAA TAG 1647 TGACCGATGGGGGACTGAGCTGGTCTTTGAGGCTGCAGAGCTTGGGGGGGCTGGCAGGCCCCAACTGGGACTGATTGT CACTGCCGACATCAAGAACTCACCCAAGAGTATGACCTGGACCAACAGGGTTTTGTGTCTTGACTCAGTTTGCTCATCT TCATTGAGGTCCACCCAGGGATGGGGAGGTTTTGCTCTAGGGGGGTTCTCTGTATATGTGGTGAAAGCTTTGTTCATAA CCTGTGGATCTACATGGGAAGACTACCCATATTAGGAGGGTCTGGTAATGCCAGCAACCAATCAGACACCACCCAGAGT CACCCGGCCAAACCCTCAGTGAACAACCAAAATATCTCTCTGTAGATACCGTCCAGGCTCAGGCCCATGTGACACCTGC TGTCCACCCACCGGACCTGTTCAGTAGGTTTCTCCCACACCCCACAGCCCCAGGCTTTCTTCTTTGAAATTGCAGGCGAT CTAGGTGTGTGTGAGCAGCTATTTCCTGGCAGGGGCCCCCCGGTTTGCCTCCCTAGAGCCTGACCAGTGGATTCTCTG AGAGATCCAGATGTGTCCTGGGGACAGCTGGGTCTTGCACCAGGTGACAACCTCAAAACGCCGTTACCCCCTGGGGAAC

Figure 1 continued

TGAGGACTGAGSGCCAAGTG

	*wCFMAaFGGmFMFGWDTGVINgFvwMIdFhYRFgMmhydwtyYlS + A+G	
132	EDAVEAIGF-GKFQWKLSVLTGLAWMADAMEMMILSILAPQLHCEWRLP	179
180	TMRWgLIVSIFnIGCMIGSIFfGWIgDMYGRRmsMMMvNvIFIIGIIIMI + + +L +S ++G+M +S ++G+I+D YGR+ ++ ++++ +I+++ SWQVALLTSVVFVGMMSSSTLWGNISDQYGRKTGLKISVLWTLYYGILSA	229
	fSinysWWMYIIGRIImGIGVGgISvlvPMYISEIAPkHlRGtMvSWYQL	
230	F++ + +++ R ++G+G+GG + V +Y +E+ P + R +++ + ++ FAPVYSWILVLRGLVGFGIGGVPQSVTLY-AEFLPMKARAKCILLIEV	276
	MITIGIFIAYCfNYgfnyYnNdsWQWRWPLGLcFIWAIfMIIgMMFlPES +++IG ++ + +++ + WRW+L+L+++ +++ ++++LPES	
277	FWAIGTVFEVVLAVFVMPSLGWRWLLILSAVPLLLFAVLCFWLPES	322
	PRWLVikGriEEARrsLqRlRgwdDVDpEIQEMMDeIeaMiEEElagNaS R+ V+ G+ E+A ++L+R+ ++ + + + + + + + + + + + + + + +	
323	ARYDVLSGNQEKAIATLKRIATENGAPMPLGKLIISRQEDRGK	3 65
	WgELFrrrtPkMRWRiIMgMMIQiFQQFTGINYIMYYSTTIFesVGMq* + LF+ + RW +++ +I+++ ++ YY+ ++ ++ +Q	
366	MRDLFTPHFRWTTLLLWFTWFSNAFSYYGLVLLTTELFO	404

Figure 2

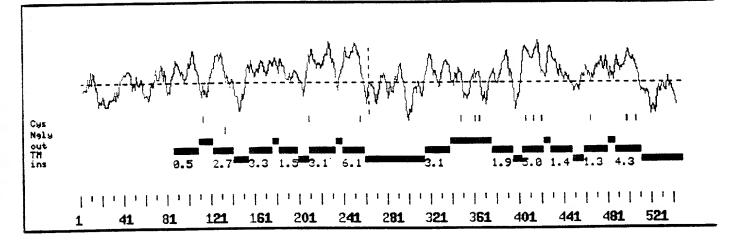


Figure 3

GTCGACCCACGCGTCCGAGCAAAGAGGATTACATGGACCTGCTGTGGACCACCCTGTCTG AGTTCCCAGGTGTCCTTGTGACTCTGTGGGTCATCGACCGCCTGGGCCGCAAGAAGACCA TGGCTCTGTGTTTCGTCATCTTTTCCCTCTGCAGCCTCCTGCTGTTCATCTGCATTGGAA GAAATGTGCTAACCCTCTTACTGTTCATTGCAAGAGCGTTTATTTCTGGAGGCTTCCAAG CAGCCTACGTTTACACGCCTGAGGTGTATCCAACGGCGACGAGGGCGCTGGGCCA CCTGCAGCGGCATGGCGAGAGTGGGCGCGCTCATCACTCCATTCATAGCTCAGGTGATGC TGGAATCTTCCGTGTACCTGACCCTGGCCGTCTACAGTGGCTGCTGCCTCCTTGCTGCCT TGGCCTCCTGCTTTCTGCCCATCGAGACCAAAGGCCGAGCACTGCAGGAGTCCAGCCACC ACTCTGGCTCTCAGGAGTAGTGACCCCTGGGAGTTGAGCTGGTCTTTGAGGCCGGAGCCT AGAAAGCTGGCAGAGCCCAGCTGGGCCACTAACGGTCACTGCCGACATCAAGAACTTTCC CCGAGTGGGCGAAGTGAACCGACAGGGTTTTGTGTCTTCACTGTGTTTGGCCTATGTTCA TCGAGGGTTGCCCCCCAGGAAGATGGGGCTGCATTCACTCCAGGGGGTTCTTCCGTGG TGGGGGAAAGGGTTGGTACGTCGCCGTGGATCTGCATGGGGGAAGCTGCTAGTGTGGGAG GGTCCCAGGGCGCTCAGGGCCAGCTGAGCAGATGTCACGTGGTTACCCAGTCATACCCTT **CGAGAGCCACTGTCCAAAGATCTCCATAGATACAGTCTCAGCCCAGACCCCTGTGACACC** CCCCATTTTGTCCAGTAAGTTTCTCCTGCACCCTGGCCCCAGGATGTCTTTGGAATTAAG ACAAGCTAATTAGTGTCCGACTAGAGCAGCTTTTCTGGAGCCTGAGACACCCCCCTCCCC GTTGCTTCCTTGGTTGGGCCCCTCTAGATGTCTCTTCAGGGCCTGCCGGGTAGAAACTGA CTGAAGAATGTGCTTGTGAATTTGAGCCAAGCATCATCCCCCATTGACCCCTTCTGGAGC CTCTGTCTCTGGCTGCAGAGGGTCCTGTTATATTTCTGGGGAGAGCTAGGTACCCACCAG <u>GCGACAGACCCAGAAAATTGTTAACCCATTCCCTGTCTTGGAAATCGGAGAGTGAGGCCCT</u> ACCAGAGGGGAGACTAAGGGCCAAAACCAAAGCCAGAGTCACCCCTGAAGCAGTTAGGGC CTTTCTGGGCCTCTCTCTTACCCTCCCACCCCCACTCAGCCCCACTACATAGCGAGTCC CGGTTTCCTCAGGCTTCCAGACTCGTCTGTGTGTAGGTCGCCGCATGAGCTTAGGGATCT CCATGGCAAAGCACCAAGTGCCGGCCCATTAAGTCTTGGGACGGAGAACCTGTTGCCCCT TCCGGCTCTGCCTCTCTCTCTCTGCTCTCTCTCAAGGGCAGGGCTGGTCCTACAG AGGCGGGTCCCGGGAGGATGTCCCGGCTCGAGGATCAGGAAAGCCCATCTCAGAGGGAGA CAGGAGGCTGTTGTCTTGGCCTCAGGAGGAAGGTAGGTCTGAAGGCAGTCCACGTGTACT CCCGGATTCCGGAACGCACGAGCCGCCCCTCTGAGATTCAGGAAAGAAGCACGCAGGGGG <u>AGGAAGGAGATGGCCAGGCCCCAATCAAAGGCCAGAGGAAACTGGCCGCTTTGCTTGATG</u> GACACCTCGCAAGGGAGCCAAATGTGCGTTGTGCGCTCATCTCTTA